AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

What is claimed is:

- 1 1. (Original) A method comprising:
- 2 importing environment information of a target database system into a test system, the
- 3 environment information comprising random sample statistics of the target database system;
- 4 storing the random sample statistics in a storage location; and
- 5 using the random sample statistics in performing query plan analysis for a given query in
- 6 the test system.
- 1 2. (Original) The method of claim 1, wherein importing the random sample statistics
- 2 comprises importing random sample statistics from a selected segment of the target database
- 3 system.
- 1 3. (Original) The method of claim 2, wherein the target database system comprises plural
- 2 access modules, wherein importing the random sample statistics comprises importing the random
- 3 sample statistics associated with less than all of the access modules.
- 1 4. (Original) The method of claim 3, wherein importing the random sample statistics
- 2 comprises importing the random sample statistics associated with a randomly selected one or
- 3 randomly selected ones of the access modules.
- 1 5. (Original) The method of claim 2, wherein importing the random sample statistics
- 2 comprises importing at least some of the following information: database name, base table
- 3 name, number of rows in the base table, number of indexes for the base table, minimum row
- 4 length in the base table, maximum row length in the base table, secondary index name, number
- of rows in a secondary index table, and average row size of the secondary index table.

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- 1 6. (Original) The method of claim 1, wherein importing the environment information
- 2 comprises importing the environment information of a target database system having plural
- 3 access modules that manage concurrent access of plural portions of data stored in the target
- 4 database system.
- 1 7. (Original) The method of claim 6, wherein importing the environment information further
- 2 comprises importing information pertaining to a configuration of the target database system.
- 1 8. (Original) The method of claim 6, wherein importing the environment information further
- 2 comprises importing cost-related information of the target database system.
- 1 9. (Original) The method of claim 7, wherein importing the cost-related information
- 2 comprises importing information comprising at least some of the following: number of nodes in
- 3 the target database system, number of CPUs per node, number of access modules per node, an
- 4 amount of memory allocated per access module, disk access speed, and network access speed.
- 1 10. (Currently Amended) The method of claim 1, further comprising emulating, in the test
- 2 system, an environment of the target database system using the random sample statistics, wherein
- 3 performing the query plan analysis comprises performing the query plan analysis in the emulated
- 4 environment.
- 1 11. (Original) The method of claim 10, wherein emulating the environment comprises
- 2 emulating the environment at one of plural emulation levels, the plural emulation levels
- 3 comprising a system level and a user session level.
- 1 12. (Original) The method of claim 10, further comprising generating a full set of statistics
- 2 from the random sample statistics.
- 1 13. (Original) The method of claim 12, further comprising invoking an optimizer to use the
- 2 full set of statistics to perform the query plan analysis.
- 1 14. (Original) The method of claim 1, further comprising using an SQL DIAGNOSTIC
- 2 statement to identify random sample statistics to capture.

- 1 15. (Original) The method of claim 14, further comprising using another SQL DIAGNOSTIC
- 2 statement to set random sample statistics in the storage location.
- 1 16. (Original) A test system comprising:
- an interface to receive environment information associated with a target database system,
- 3 the environment information comprising at least one of the following: sample statistics collected
- 4 from a segment of the target database system, and cost-related information pertaining to a
- 5 configuration of the target database system;
- a storage system to store the environment information; and
- an optimizer adapted to determine a query plan in response to a given query in an
- 8 environment based on the environment information.
- 1 17. (Currently Amended) The database test system of claim 16, wherein the target database
- 2 system comprises plural access modules to manage respective portions of data stored in the target
- database system, and wherein the sample statistics comprise sample statistics collected from less
- 4 than all the access modules in the target database system.
- 1 18. (Original) The test system of claim 17, wherein the sample statistics comprise sample
- 2 statistics collected from randomly selected one or more of the access modules.
- 1 19. (Original) The test system of claim 17, wherein the sample statistics comprise at least
- 2 some of the following information: database name, base table name, number of rows in the base
- 3 table, number of indexes for the base table, minimum row length in the base table, maximum row
- 4 length in the base table, secondary index name, number of rows in a secondary index table, and
- 5 average row size of the secondary index table.
- 1 20. (Original) The test system of claim 17, wherein the cost-related information comprises at
- 2 least some of the following information: number of nodes in the target database system, number
- 3 of CPUs per node, number of access modules per node, an amount of memory allocated per
- 4 access module, disk access speed, and network access speed.

- 1 21. (Original) The test system of claim 16, the storage subsystem to store a system table
- 2 containing the sample statistics.
- 1 22. (Original) The test system of claim 21, wherein the storage subsystem further comprises a
- 2 cache and a global configuration file, the test system further comprising a controller adapted to
- 3 load the sample statistics from the system table to one of the cache and global configuration file.
- 1 23. (Original) An article comprising at least one storage medium containing instructions that
- 2 when executed cause a system to:
- 3 extract random sample statistics from one or more tables of the target database system;
- 4 and
- store the random sample statistics in a predetermined location for importing to a test
- 6 system to enable emulation of an environment of the database system.
- 1 24. (Original) The article of claim 23, wherein the instruction when executed cause the
- 2 system to present a graphical user interface having plural input elements activable by a user to
- 3 perform the export and import tasks.
- 1 25. (Original) The article of claim 24, wherein the instructions when executed cause the
- 2 system to issue a first SQL DIAGNOSTIC statement to the target database to extract random
- 3 sample statistics from a segment of the target database system.
- 1 26. (Original) The article of claim 25, wherein the instructions when executed cause the
- 2 system to issue a second SQL DIAGNOSTIC statement to set the exported random sample
- 3 statistics in a storage location of a test system.
- 1 27. (Original) The article of claim 24, wherein the instructions when executed cause the
- 2 system to:
- 3 present a screen displaying the random sample statistics; and
- 4 accept user input to edit the random sample statistics.

- 1 28. (Original) The article of claim 23, wherein the instructions when executed cause the
- 2 system to extract cost-related information pertaining to a configuration of the target database
- 3 system.
- 1 29. (Original) The article of claim 28, wherein the cost-related information comprises at least
- 2 some of the following information: number of nodes in the target database system, number of
- 3 CPUs per node, number of access modules per node, an amount of memory allocated per access
- 4 module, disk access speed, and network access speed.
- 1 30. (Original) An article comprising at least one storage medium containing instructions that
- 2 when executed cause a system to:
- 3 import random sample statistics of a target database system;
- 4 store the random sample statistics in a storage location;
- 5 generate a full set of statistics from the random sample statistics; and
- 6 use the full set of statistics in selecting a query plan in response to a given query.
- 1 31. (Original) The article of claim 30, wherein the instructions when executed cause the
- 2 system to invoke an optimizer to use the full set of statistics in selecting the query plan.
- 1 32. (New) The test system of claim 16, further comprising a controller to emulate, in the test
- 2 system, an environment of the target database system based on the environment information,
- wherein the optimizer is adapted to determine the query plan in the emulated
- 4 environment.
- 1 33. (New) The article of claim 30, wherein the instructions when executed cause the system
- 2 to:
- import cost-related information of the target database system;
- 4 emulate an environment of the target database system based on the random sample
- 5 statistics and cost-related information of the target database system,
- 6 wherein using the full set of statistics in selecting the query plan is performed in the
- 7 emulated environment.